Assignment 4.3

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Batch : DA with R , Excel and Tableau

1. States = rownames(USArrests)

Get states names with 'w'.

Get states names with 'W'.

> head(datasets::USArrests)

Murder Assault UrbanPop Rape

Alabama 13.2 236 58 21.2

Alaska 10.0 263 48 44.5

Arizona 8.1 294 80 31.0

Arkansas 8.8 190 50 19.5

California 9.0 276 91 40.6

Colorado 7.9 204 78 38.7

> states<-rownames(USArrests)

> states

[1] "Alabama" "Alaska" "Arizona" "Arkansas" "California"

[6] "Colorado" "Connecticut" "Delaware" "Florida" "Georgia"

[11] "Hawaii" "Idaho" "Illinois" "Indiana" "Iowa"

[16] "Kansas" "Kentucky" "Louisiana" "Maine" "Maryland"

[21] "Massachusetts" "Michigan" "Minnesota" "Mississippi" "Missouri"

[26] "Montana" "Nebraska" "Nevada" "New Hampshire" "New Jersey"

[31] "New Mexico" "New York" "North Carolina" "North Dakota" "Ohio"

[36] "Oklahoma" "Oregon" "Pennsylvania" "Rhode Island" "South Carolina"

[41] "South Dakota" "Tennessee" "Texas" "Utah" "Vermont"

[46] "Virginia" "Washington" "West Virginia" "Wisconsin" "Wyoming"

> grep("w",states)

[1] 8 11 15 29 30 31 32

> states[grep("w",states)]

[1] "Delaware" "Hawaii" "Iowa" "New Hampshire" "New Jersey" "New Mexico"

[7] "New York"

> states[grep("W", states)]

[1] "Washington" "West Virginia" "Wisconsin" "Wyoming"

2. Prepare a Histogram of the number of characters in each US state.

> df<-nchar(states)

> df

[1] 7 6 7 8 10 8 11 8 7 7 6 5 8 7 4 6 8 9 5 8 13 8 9 11 8 7 8 6 13 10 10

[32] 8 14 12 4 8 6 12 12 14 12 9 5 4 7 8 10 13 9 7

> hist(df)

